

Electronic Laboratory Reporting National Snapshot Survey

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and Epidemiology

ELR National Snapshot

⦿ Goal: Capture national picture of current and future ELR in the United States

⦿ Six stages:

- Idea and proposal
- Design and feedback
- Identification of the 50 respondents
- Distribution
- Analysis and write-up
- Presentation and dissemination of results

Idea and Proposal

- Initially proposed to the National ELR Teleconference Group - a collection of state ELR personnel who collaborate via regular monthly conference calls
- Teleconference group is chaired by Mike Davisson, Washington Department of Health

Design and Feedback

- Draft survey created
- Volunteers solicited to review
 - Eight volunteers
 - Represented five states, CDC, and CSC
- Developed in MS Excel
- Included background coding to auto-populate a master data table upon the survey's return

Identification of the 50 Respondents

- ⦿ A Challenge!
- ⦿ Started with the national call roster
(containing representatives from <20 states)
- ⦿ Web research of state public health websites
- ⦿ Combined email-telephone campaign waged,
eventually produced one ELR contact per
state
- ⦿ Serendipity - significant increase in
attendance for our monthly national calls

Distribution and Analysis

● Distribution of survey

- Via email
- 50 states

● Analysis

- 49 states responded
- Data compiled and analyzed

Presentation and Dissemination

◎ Presentation of results

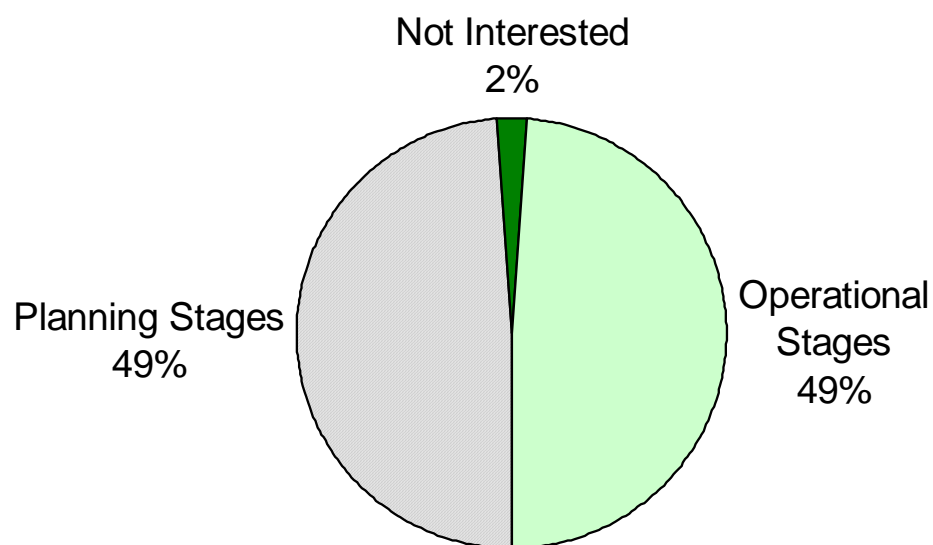
- Aggregate data only – states are not individually identifiable
- Some results not easily presented, *e.g.*
 - Questions about web-available state information
 - State ELR variables

◎ Dissemination of results

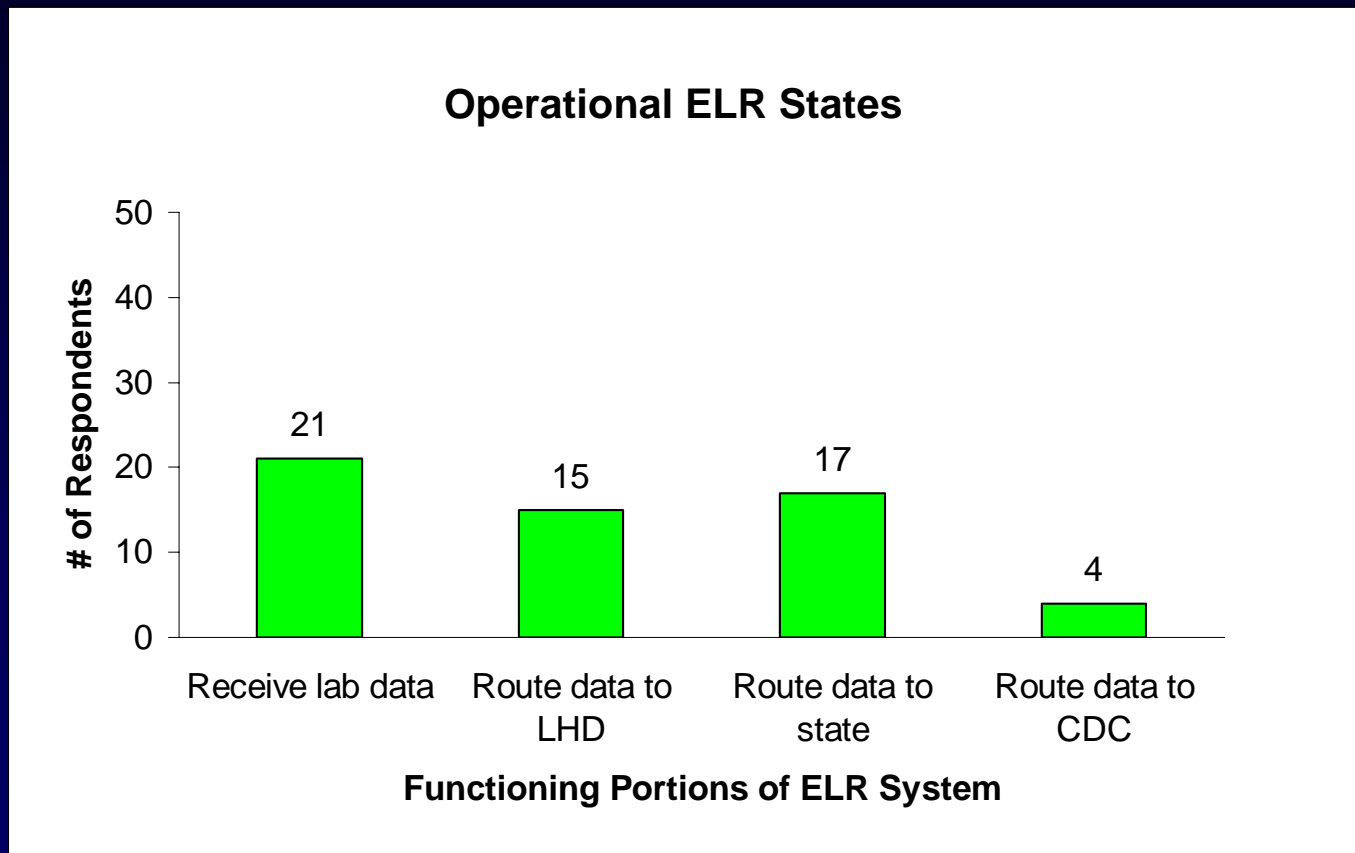
- PHIN Conference presentation
- Copy of results to all participants
- Post to web sites

Q2. Current State Implementation of ELR

State Implementation of ELR

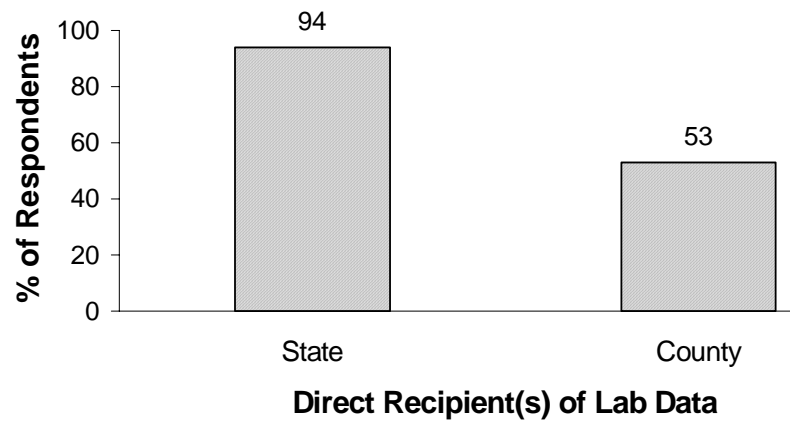


Q2a. For Operational ELR States, Parts Currently in Production

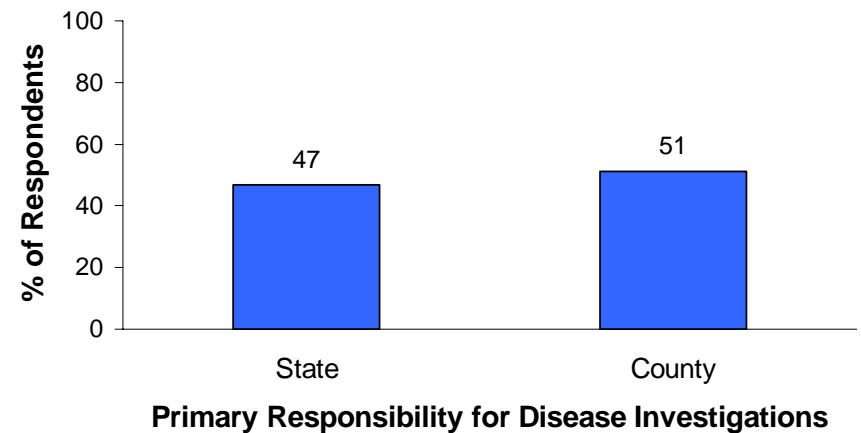


Q3. Public Health Structure in States

Public Health Structure of States Re Data Recipients

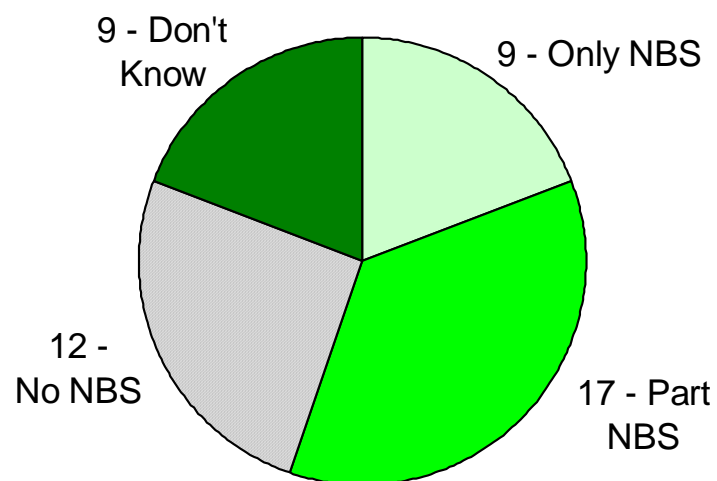


Public Health Structure of States Re Investigations



Q5. Utilization (Current or Planned) of the NBS

**Utilization of NEDSS Base System by
Number of Respondents**



Q6. ELR Plans Involving Components Other Than NBS

18 States Have Built or Plan to Build Their Own Components or Systems Using State Personnel

Operating System	Number of states
Windows	12
UNIX	1
Linux	2

Q6. ELR Plans Involving Components Other Than NBS

14 States Have Contracted or Plan to Contract for Their Own Components or Systems

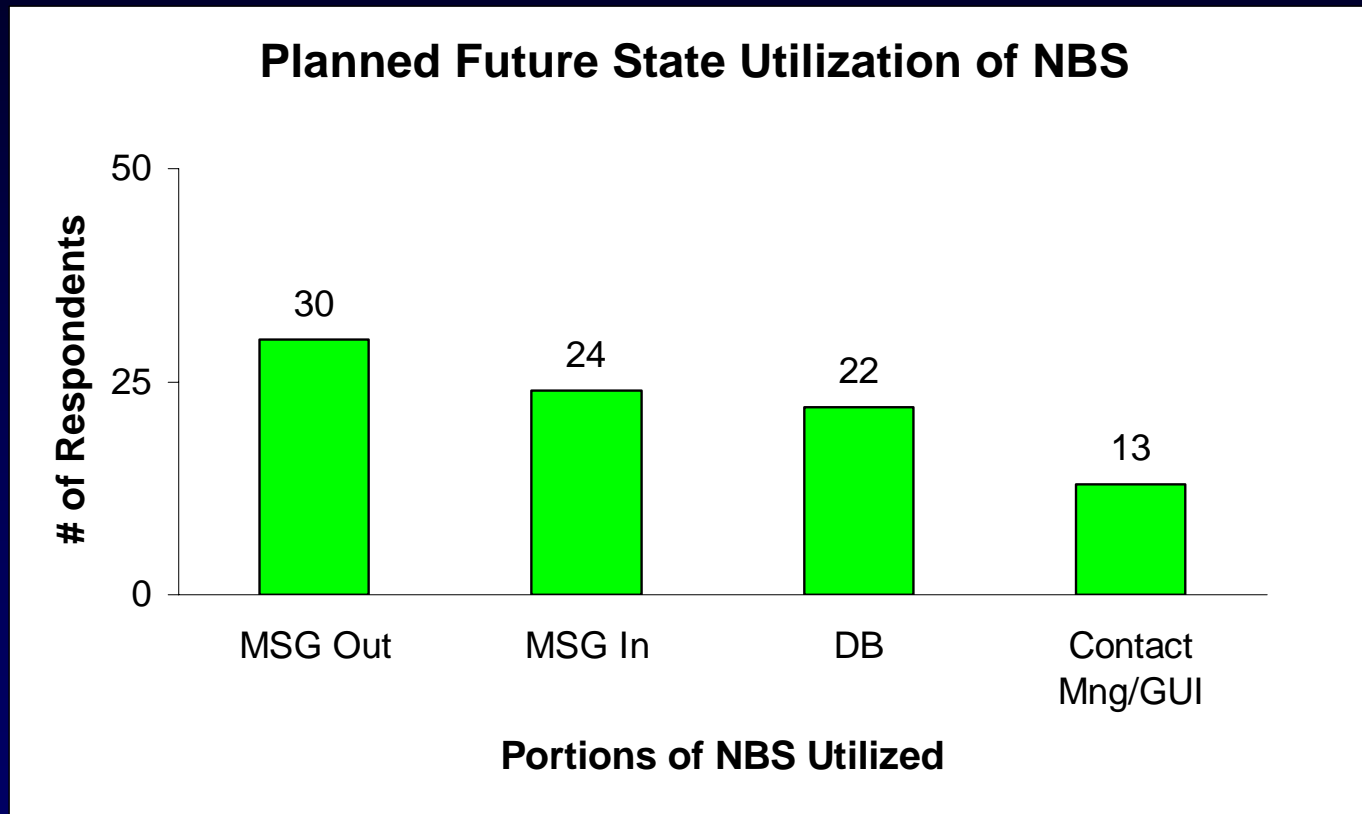
Operating System	Number of states
Windows	9
UNIX	3

Q6. ELR Plans Involving Components Other Than NBS

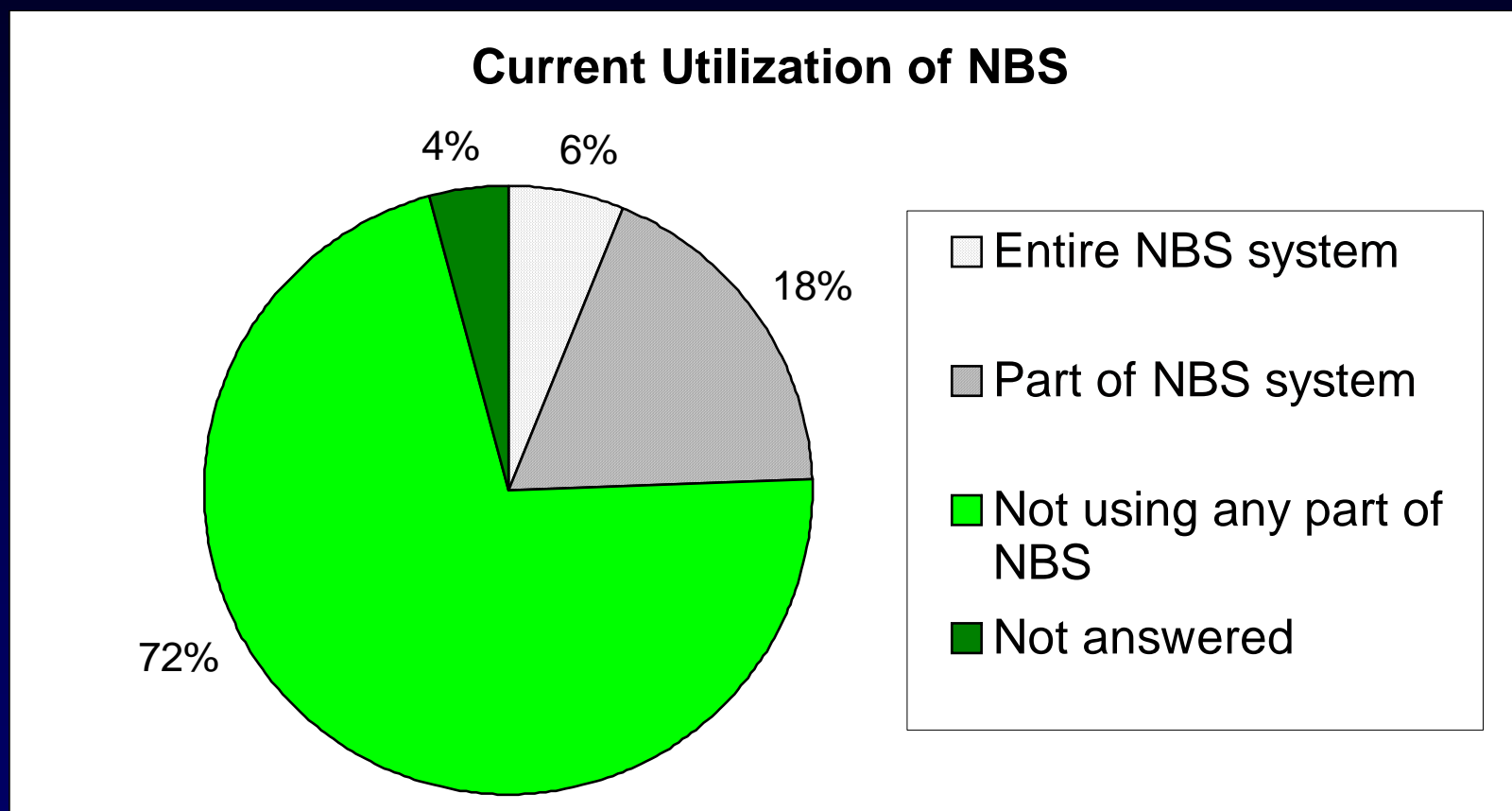
15 States Have Purchased or Plan to Purchase Their Own Components or Systems

Vendor	Application	Vendor	Application
ASSL	PHIN Compliant LITS+	Microsoft/NeoTool	Visual Studio .NET, BizTalk/NeoIntegrate
CTA, Inc.	HAWK	NeoTools; Informatica	NeoIntegrate; PowerCenter
ITI, Inc.	PHS3	Scientific Technologies Corporation	Web CDR (3)
LIMS USA	Starlims	SIMI Group	
LinkMedical	LinkTools	Sybase	ECMap, ECGateway
		Technology Consulting Inc	Electronic Public Health Record System

Q7. ELR Plans Involving NBS Components

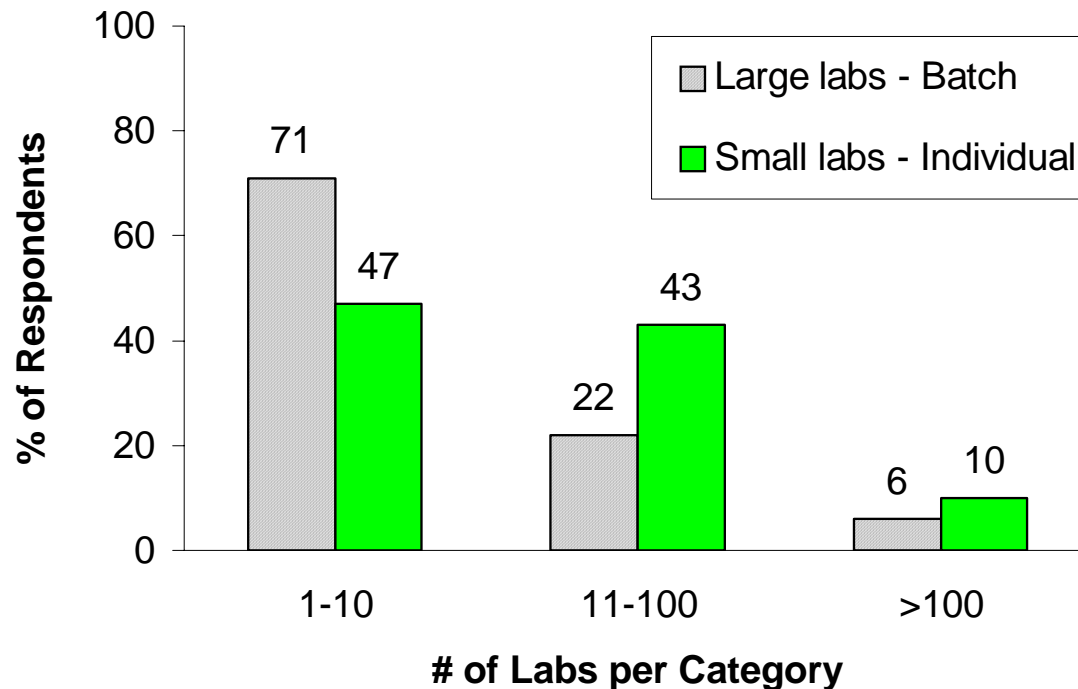


Q8. Current Utilization of NBS by States



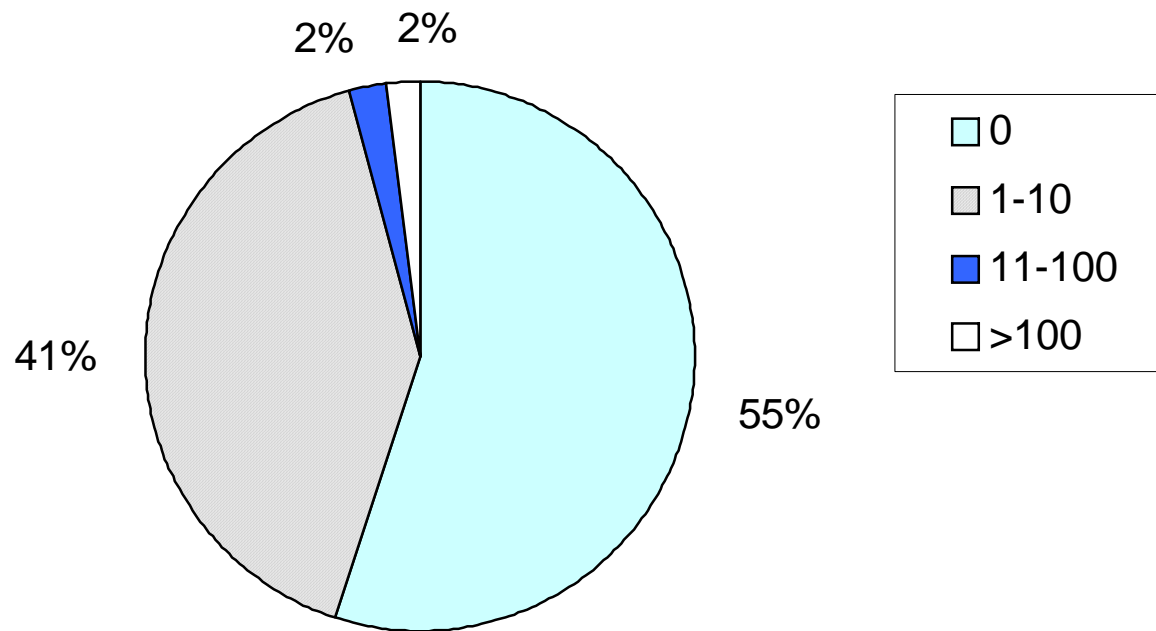
Q9. Batch and Individual Reporting, Size of Labs in States

Size of Labs in State, as Categorized by Batch vs. Individual Reporting



Q11. Labs Currently Reporting via ELR

Number of Labs Currently Reporting by ELR, by % of State Respondents

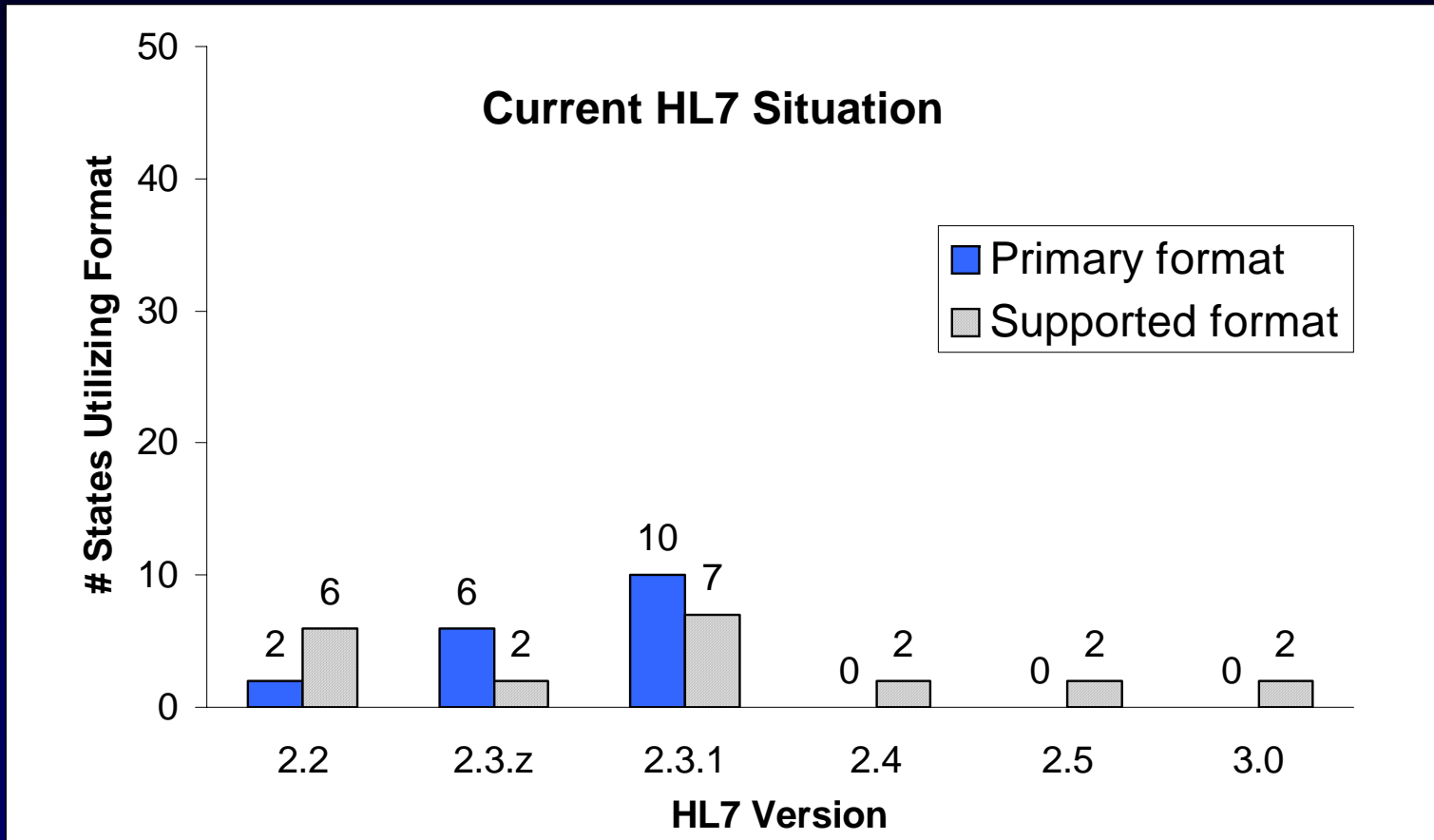


Q13. Lab Origin of All Reports

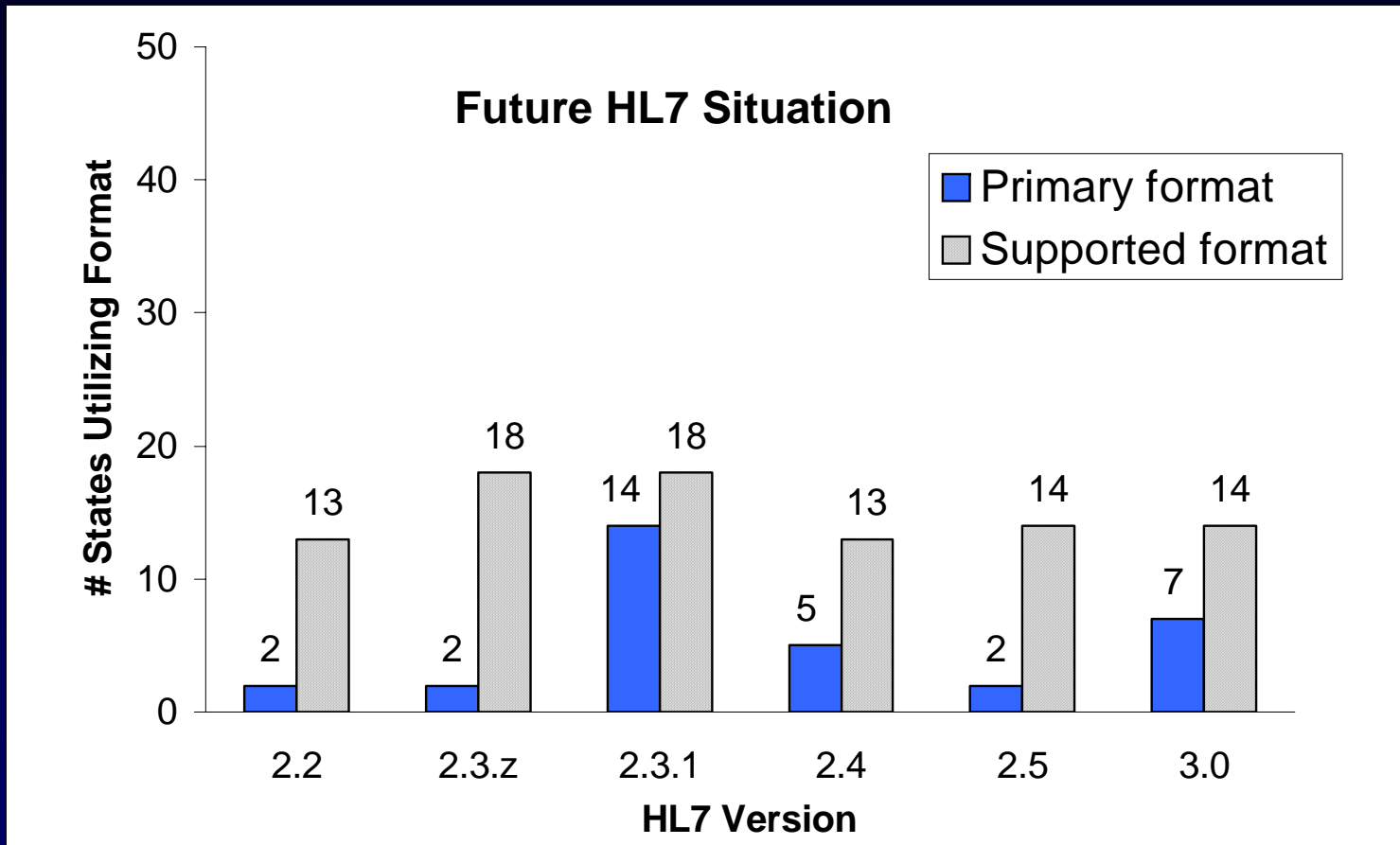
Percentage of Lab Reports (by Any Method)

Report Source	Mean	Median	Std Dev
Local Labs	34.8	25.0	36.8
Regional Labs	16.1	2.0	24.0
National Labs	15.6	0.3	26.9

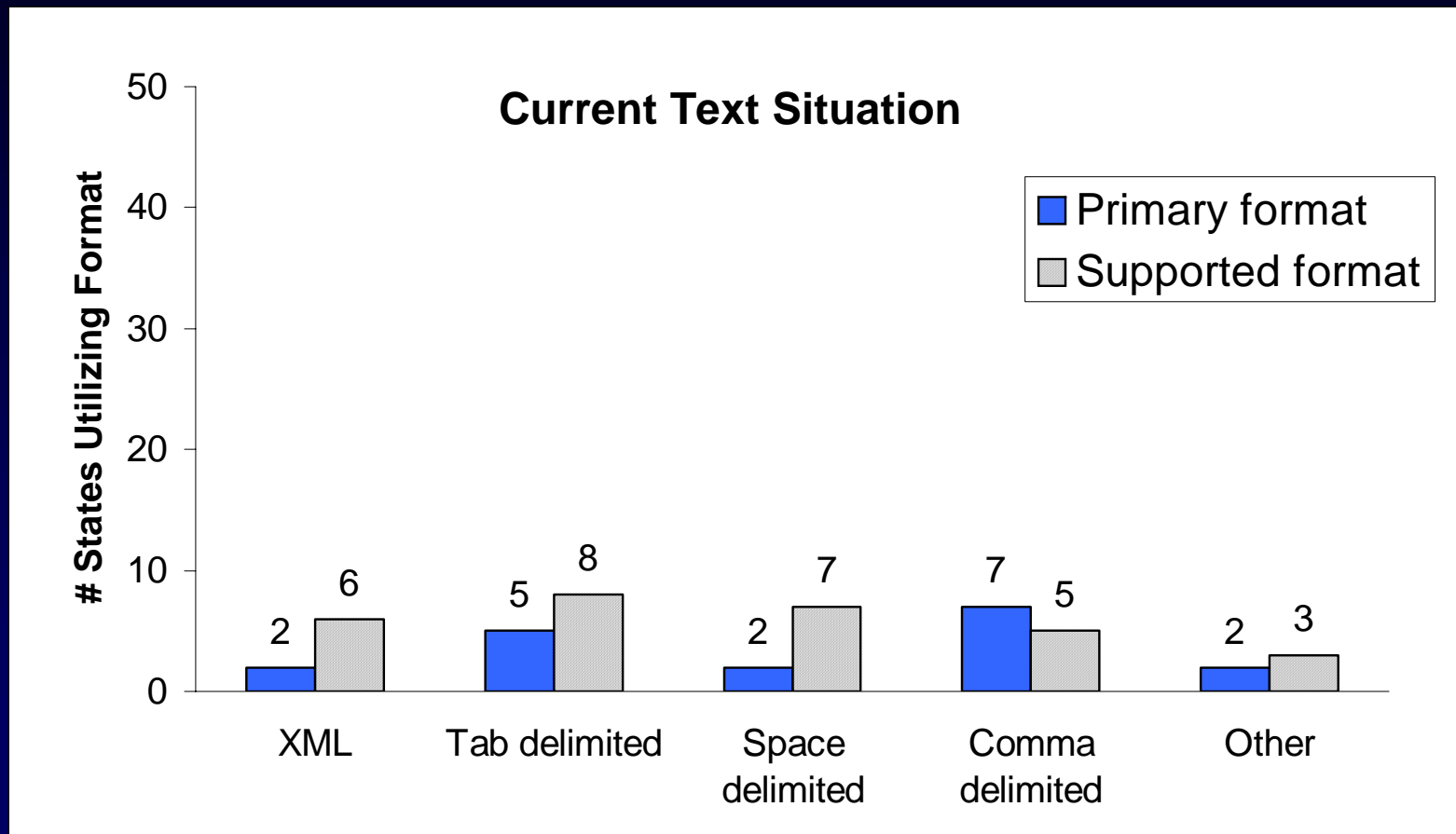
Q16. Data Format – HL7



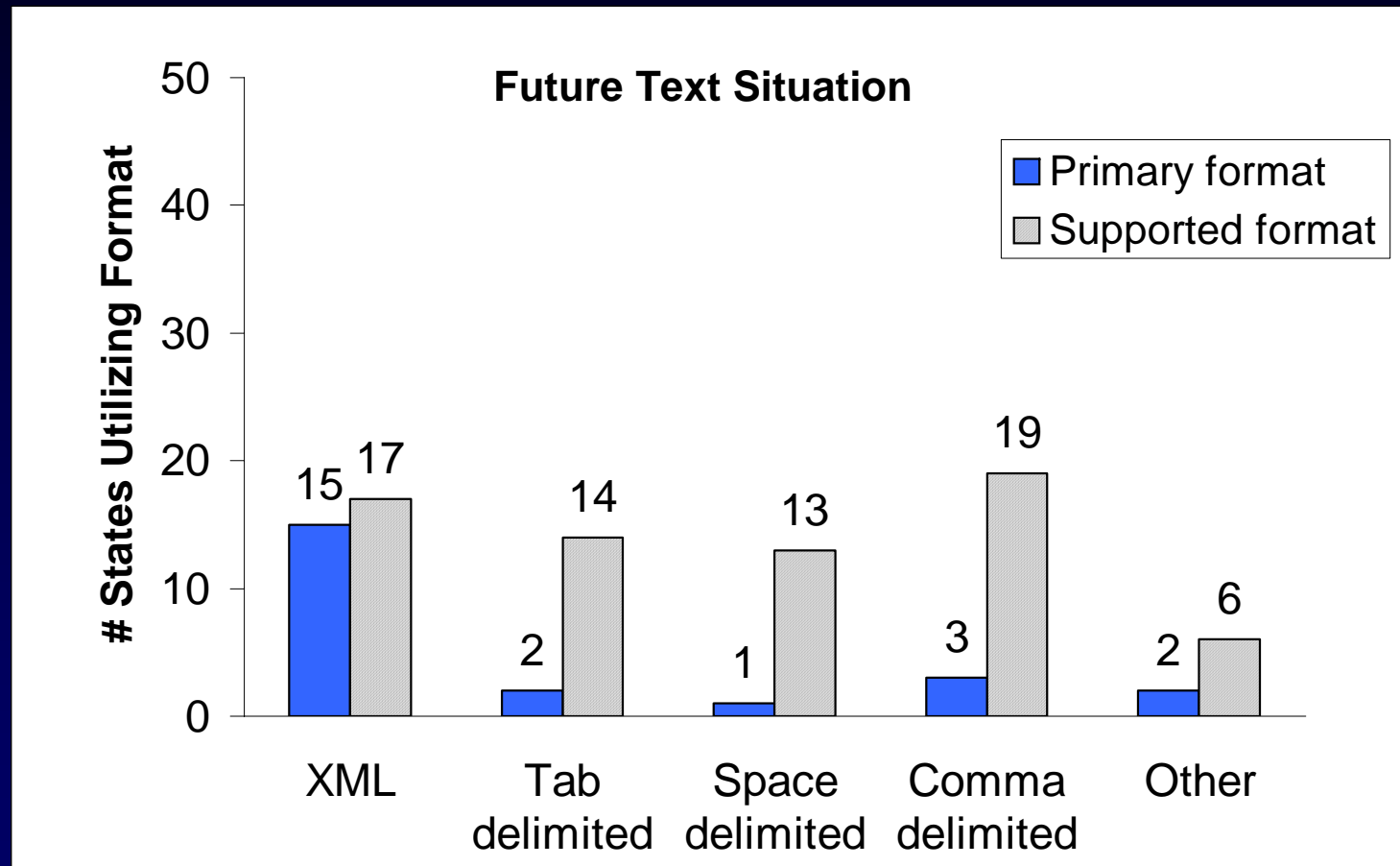
Q16. Data Format – HL7



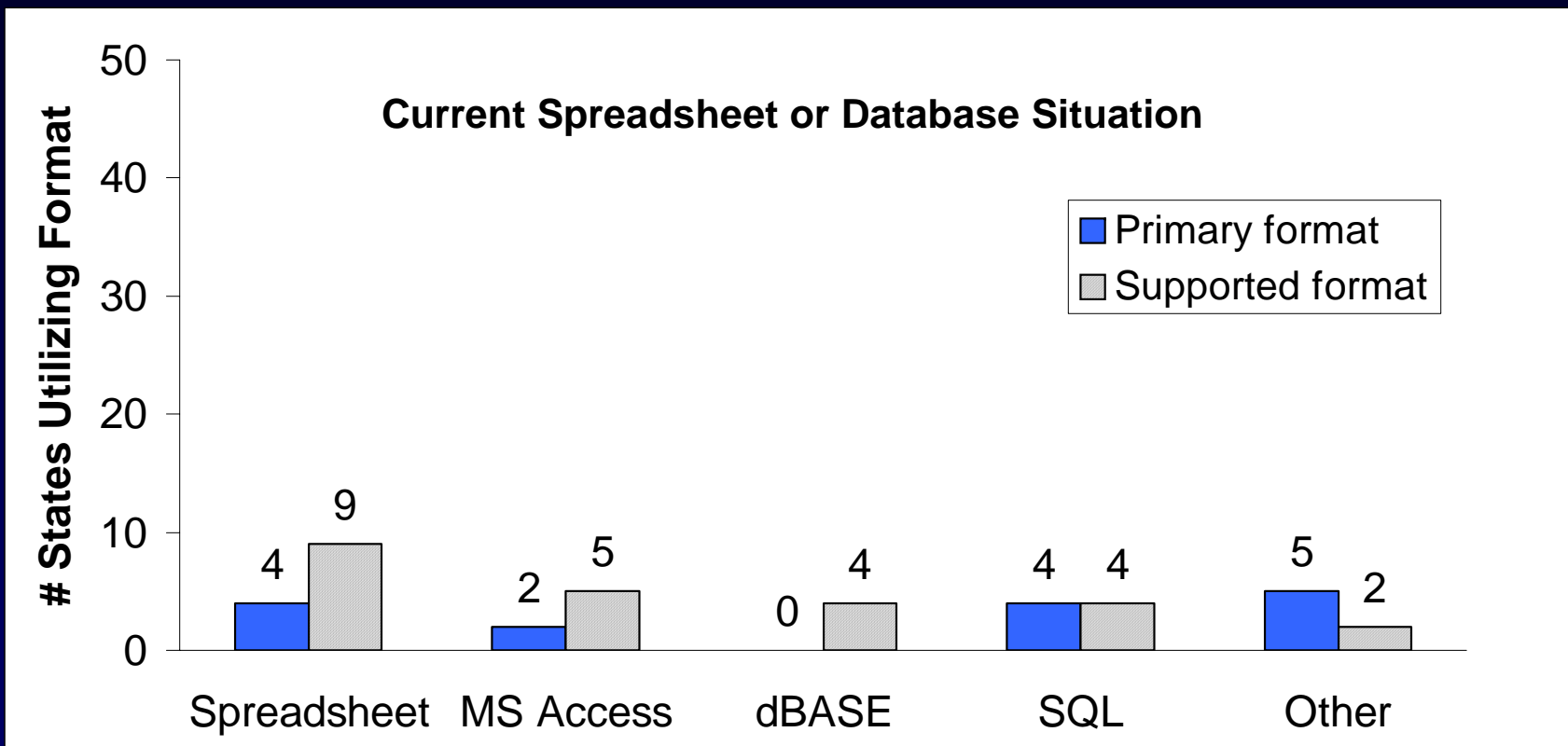
Q16. Data Format – Other Text



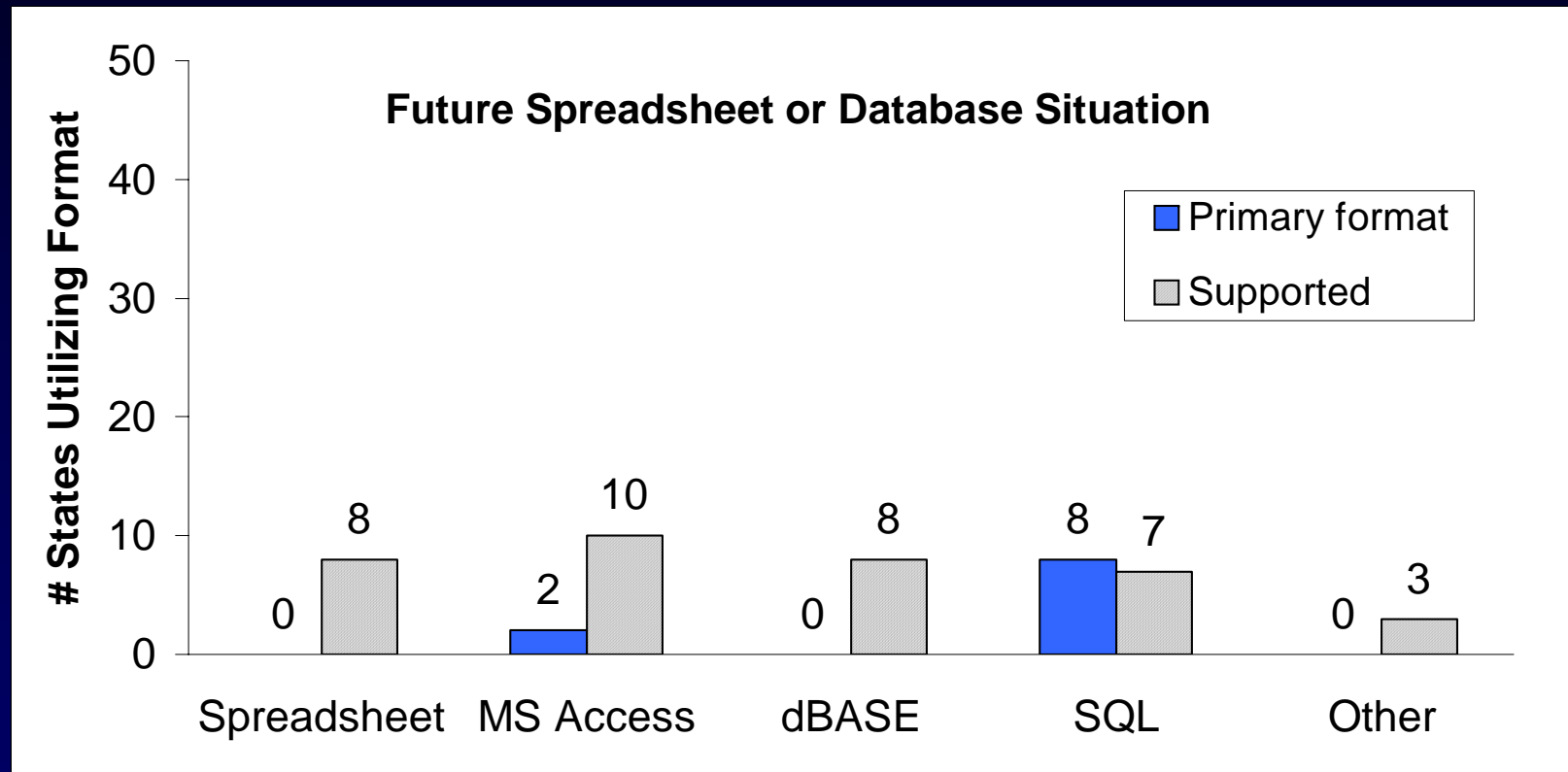
Q16. Data Format – Other Text



Q16. Data Format – Spreadsheets and Databases

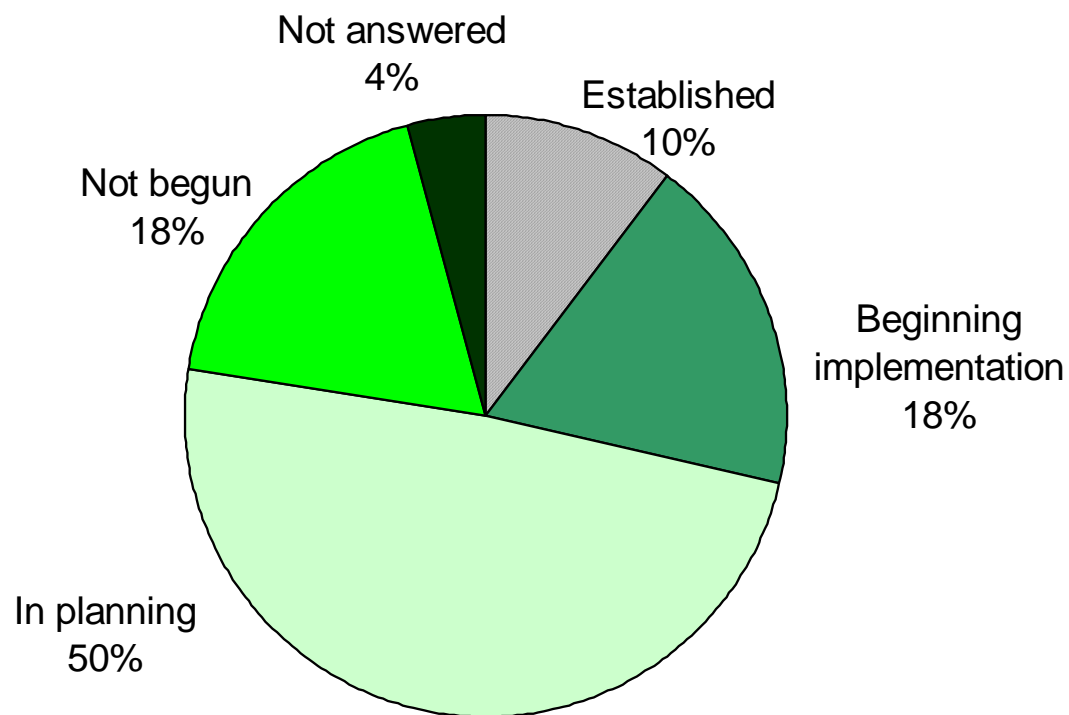


Q16. Data Format – Spreadsheets and Databases

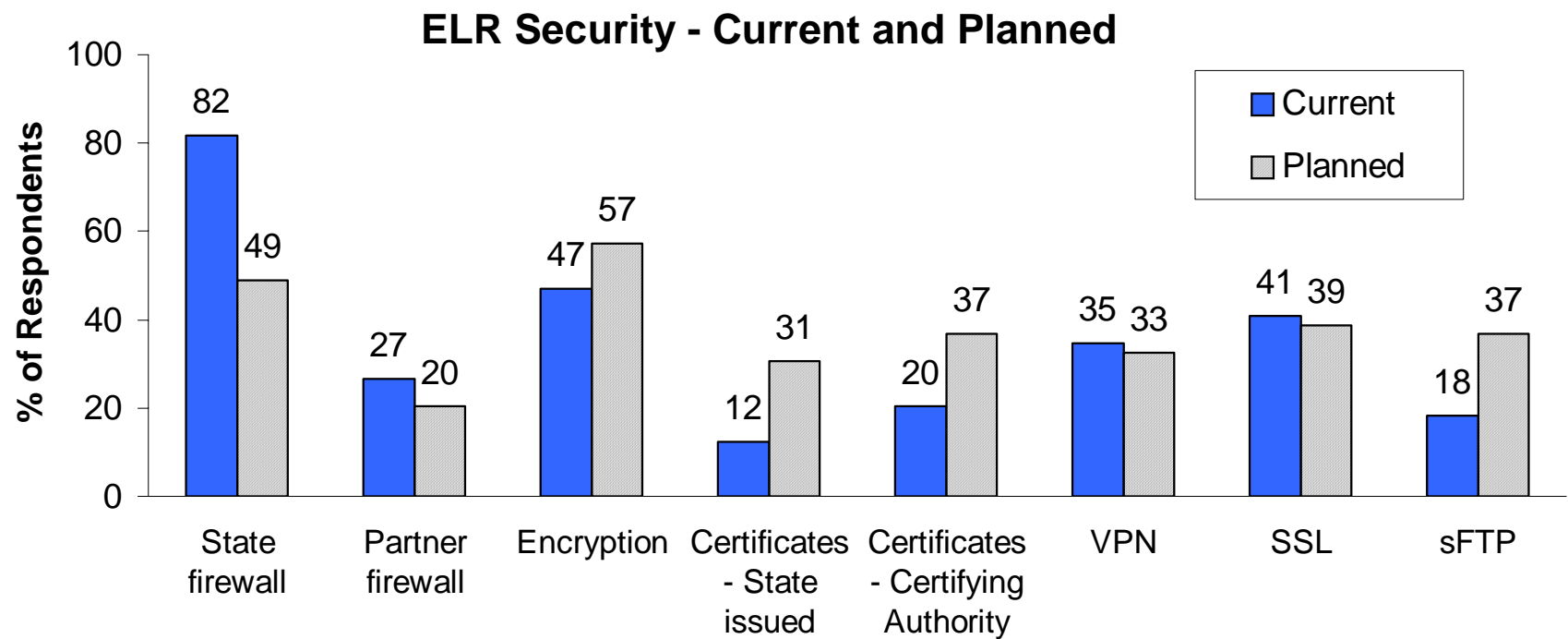


Q19. State Data Quality Control

Quality Control of ELR Data

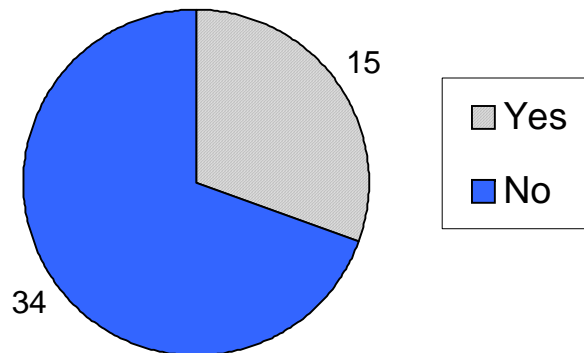


Q18. State Security Elements

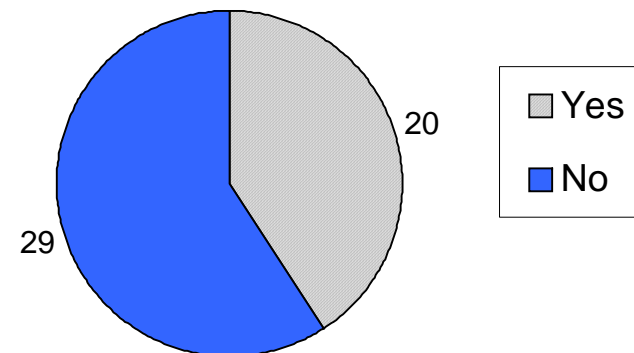


Q20. Commercial-Off-The-Shelf Products

**Use of Messaging/Scheduling
COTS Products, # of States**



**Use of Translation/Parsing COTS
Products, # of States**



Q20. COTS Messaging

Use of COTS Products for Messaging and/or Scheduling

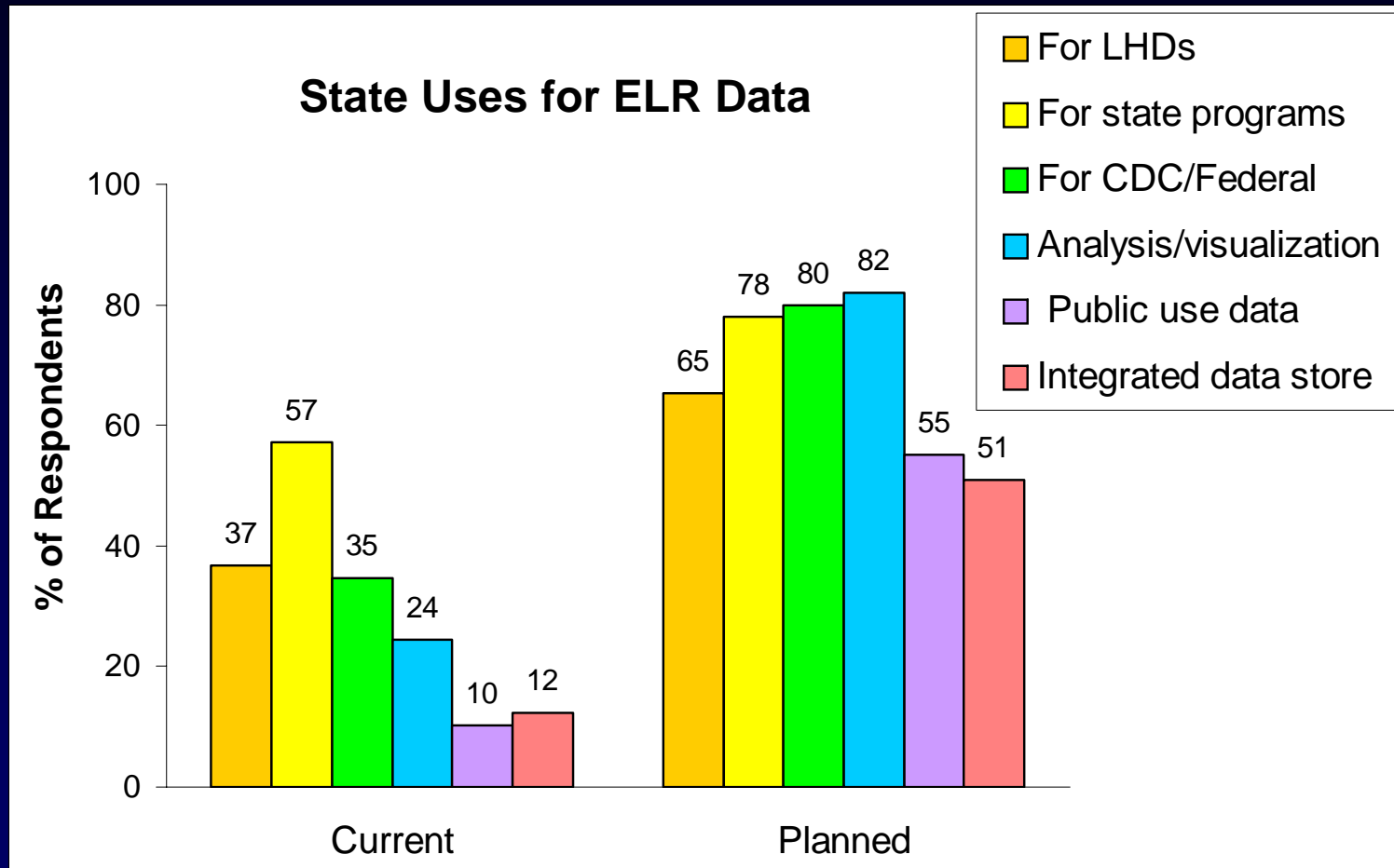
Vendor	Application	# States
[Not specified]	Autotask	1
[Not specified]	Crystal Reports	1
Eclipsys	eLINK/eWEBIT	1
Neotools	NeoIntegrate	1
Microsoft	Biztalk	4
Quovadx	Cloverleaf	1
Rhapsody	[Not specified]	1
Standard Networks	MoveIT	1
STC	[Not specified]	1
Sybase	ECGateway	1
Wilson WindowWare	WinBatch	1

Q20. COTS Translation

Use of COTS Products for Translation and Parsing		
Vendor	Application	# States
Ascential	Mercator 6.7	1
Avtex	City Watch	1
Crystal Decisions	Crystal Report Writer	1
Eclipsys	eLINK/eWEBIT	5
Itemfield	Content Master	1
Link Medical	LinkTools	1
Microsoft	BizTalk	1
Neotools	NeoIntegrate	1
Orion	Symphonia	2
Quovadx	Cloverleaf	1
Rhapsody	[Not specified]	1
STC	[Not specified]	1
Sybase	ECMap	1
XAWARE	[Not specified]	1

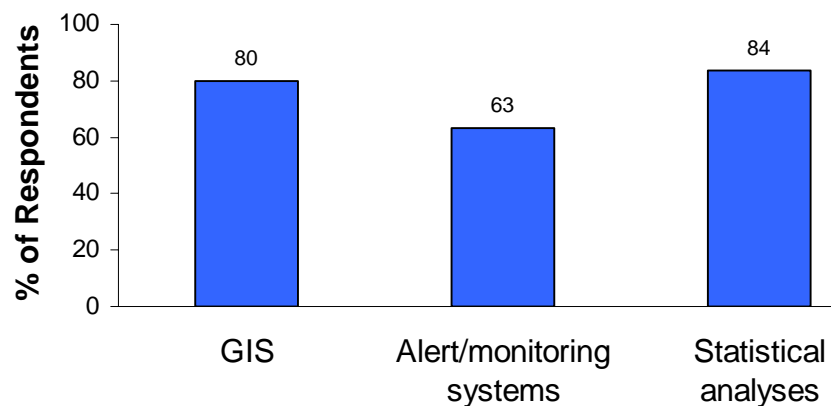
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Q21. Uses for ELR Data

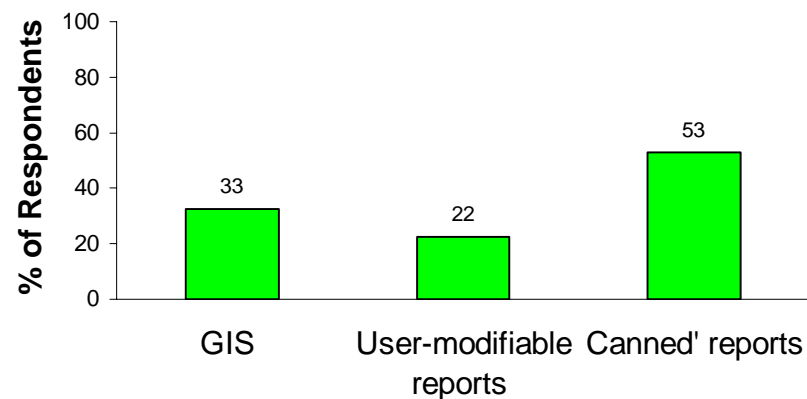


Q21. AVR and Public Use Data

Analysis and Visualization of ELR Data



Public Use ELR Data



Goals for Next Year

- ⦿ Improve design of next year's survey
 - Less flexibility on answers
 - Increase number of 'range' answers
- ⦿ Add items? Gather input from ELR Group, CDC, others
- ⦿ Web-enable the survey
- ⦿ 50 state responses instead of 49!

Thanks to the Participants!

Alan Grinsteinner*	Doug Hamaker	Jim Daniel	Mary Hamilton*
Alex Cowell	Matt Carter	Joe Haney	Mary Schopfer
Amy Biel	Eileen Troutman*	Joe McLaughlin	Mike Davisson*
Art Hagar	Hahn	John Krueger	Mike Smith
Bob Campbell	Hans Messersmith	John Hall*	Myra Ching-lee
Bob O'Doherty	Hwa-Gan Chang	Judy Goeble	Patsy Tessler
Bob Rolfs	JA Magnuson	Ken Komatsu	Paul Lamphier
Bonna Cunningham	Janet Firestone	Kim Brunette	Peter Richards
Brenda Ryals	Jean-Marie Maillard	Larry Reynolds	Rita Altamore*
Brennan O'Banion	Jeff Elliot	Lauri Smithee	Roger Cornell
Bruce Kleger	Jeff Gehring*	Leah Estberg	Shelley Hood
Charles McGee	Jeff Grieve	Leroy Hathcock	Stephanie Miller
Dan Pollock*	Jeff Takarsh	Lisa Williamson	Steven Englender
Deb Boyle	Jeff Whitesides	Maggi Gallaher	Steven Tharp

(Asterisks indicate reviewers of the original draft survey)